

## RadAlert 100

Geiger detector for measurement of alpha, beta and gamma and X-rays

### Main features:

- **audible alarm**
- **3 second update**
- **$\mu\text{Sv/hr}$  / **mR/hr****
- **counts per second/counts per minute**
- **audio output jack**
- **simple operation**



A popular, general purpose Geiger-Müller detector with mica window, used for detection and measurement of alpha, beta and gamma radiation as well as X-rays down to 10 keV. Ideal for measurement of dose rate from beta and gamma sources for environmental control applications. The large digital display can be switched between counts per minute (cpm), counts per second, dose rate in  $\mu\text{Sv/hr}$ , dose rate in mR/hr, or total counts. A red LED blinks and a beeper chirps with each count (the chirp can be muted). The device incorporates an audible alarm to warn the user when preset radiation level thresholds are exceeded. A dual miniature jack provides an output to send counts to computers or data loggers, while a submini jack provides an audio output to an external earpiece or amplifier.

### Specifications:

Sensor	Halogen-quenched Geiger-Müller detector with mica end window (LND712); end window density is 1.5-2.0 mg/cm <sup>2</sup> . Side wall 0.3 mm #446 stainless steel.
Display	4-digit liquid crystal display with mode indicators
Operating range	0.01-1100 $\mu\text{Sv/hr}$ (Cs-137), 0-3500 cps; 0.001-110 mR/hr (Cs-137); 0-350,000 cpm; Total: 9,999,000 counts
Calibration	Cesium 137 (662 keV gamma)
Sensitivity	100 cpm/ $\mu\text{Sv/hr}$ referenced to Cs-137
Accuracy	$\pm 10\%$ typical; $\pm 15\%$ max
Alert	User-adjustable alert level is set using three buttons

Count light	Red LED flashes with each count
Audible signal	Chirps for each count (can be muted)
Outputs	Dual miniature jack sends counts to computers, data loggers, several educational data collection systems and other CMOS-compatible devices. Submini jack provides audio output to an external earpiece, amplifier, or tape recorder
Power	One 9-volt alkaline battery
Dimensions	150 x 80 x 30 mm
Weight	225 grams